## S-8016.C3

TYPE: Basic

#### **Applications**

S-8016.C3 can be used for welding of high tensile steel and 1% Ni steel used in machinery, pressure vessels, storage tanks for low temperature.

#### Characteristics on Usage

- · S-8016.C3 is a low hydrogen type electrode for all position welding.
- · Good notch toughness of all-weld metal at low temperature.
- · X-ray performance and usability are good.

#### **Notes on Usage**

- (1) Dry the electrodes at 350~400°C(662~752°F) for 60 minutes before use.
- ② Adopt back step method or strike the arc on a small steel plate prepared for this particular purpose to prevent blowhole at the arc starting.
- ③ Pay attention not to exceed proper heat-input because excessive heat-input causes deterioration of impact values of all weld metal.

# Welding Position Current 1G 2F 3G 4G (PA) (PB) (PF) (PE) AC or DC +

### Typical Chemical Composition of All-Weld Metal (%)

С	Si	Mn	Р	S	Ni
0.06	0.54	1.12	0.015	0.006	0.96

#### **Typical Mechanical Properties of All-Weld Metal**

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (°F)	J (ft · lbs)
540 (78,400)	620 (90,000)	26.0	-40 (-40)	80 (59)

Approval	I Packin	l Packing		
	Packet	5 kg (11 lbs)		
	Carton	5 kg (11 lbs) × 4 : 20kg(44 lbs)		

Sizes Available and Recommended Currents (Amp.)						
Size mm (in)	2.6 (3/32)	3.2 (1/8)	4.0 (5/32)	5.0 (3/16)	6.0 (15/64)	
Length mm(in)	350 (14)	350 (14)	400 (16)	400 (16)	450 (18)	
F	55~90	90~130	130~190	190~240	250~300	
V-up, OH	50~80	80~120	120~170	-	-	